

PTO/SB/01 (10-01)

Approved for use through 10/31/2002, OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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# DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

Declaration  
Submitted  
with Initial  
Filing

OR

Declaration  
Submitted after Initial  
Filing (surcharge  
(37 CFR 1.16 (e))  
required)

Attorney Docket Number

7000-298

First Named Inventor

Tong et al.

**COMPLETE IF KNOWN**

Application Number

Filing Date

Art Unit

Examiner Name

As the below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

IMPROVED MIMO COMMUNICATIONS

(Title of the Invention)

the specification of which



Is attached hereto

OR



was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, USPTO, PO Box 1450, Alexandria, VA 22313-20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-

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**DECLARATION — Utility or Design Patent Application**Direct all correspondence to: ☒Customer Number  
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OR ☐

Correspondence address below

Name

Address

City

State

ZIP

Country

Telephone

Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR :

☐ A petition has been filed for this unsigned inventorGiven Name  
(first and middle (if any))

Wen

Family Name  
or Surname

Tong

Inventor's  
Signature

Date 16 Oct. 2003

Residence: City

Ottawa

State

Ontario

Country

CANADA

Citizenship

CANADA

Mailing Address

12 Whitestone Drive

City

Ottawa

State

Ontario

ZIP

K2C 4A7

Country

CANADA

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventorGiven Name  
(first and middle (if any))

Ming

Family Name  
or Surname

Jia

Inventor's  
Signature

Date

Oct. 16, 2003

Residence: City

Ottawa

State

Ontario

Country

CANADA

Citizenship

CANADA

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State

Ontario

ZIP

K2B 5P3

Country

CANADA

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

Please type a plus sign (+) inside this box →



PTO/SB/02A (3-97)

Approved for use through 9/30/98. OMB 0651-0032

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<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> <b>Supplemental Sheet</b> Page 3 of 3
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<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Peiyong		Zhu	
Inventor's Signature			Date 16 Oct. 2003
Residence: City	Kanata	State	Ontario
		Country	CANADA
Post Office Address	16 Pebble Creek Crescent		
Post Office Address			
City	Kanata	State	Ontario
		ZIP	K2M 2L4
		Country	CANADA
<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature			Date
Residence: City		State	
		Country	
Post Office Address			
Post Office Address			
City		State	
		ZIP	
		Country	
<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature			Date
Residence: City		State	
		Country	
Post Office Address			
Post Office Address			
City		State	
		ZIP	
		Country	

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PATENT/DOCKET NO. 7000-298  
CUSTOMER NO. 27820

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Tong <i>et al.</i>	§	Attorney Docket No. 7000-298
	§	
Serial No.: N/A	§	
	§	
Filed: Herewith	§	
	§	
Title: <b>IMPROVED MIMO</b>	§	
<b>COMMUNICATIONS</b>	§	
	§	

Commissioner for Patents  
Washington, D.C. 20231

POWER OF ATTORNEY FOR  
PATENT APPLICATION

Nortel Networks Limited, a Canadian corporation having principal offices at:

**2351 Boulevard Alfred-Nobel  
St. Laurent, Quebec H4S 2A9, Canada**

the owner by assignment of the entire right, title and interest to the invention for **IMPROVED MIMO COMMUNICATIONS**, by Wen Tong *et al.*, and in and to the application for patent and any Letters Patent, whether domestic or foreign, that may issue thereon, hereby appoints the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Benjamin S. Withrow (Reg. No. 40,876), Steven N. Terranova (Reg. No. 43,185), Taylor M. Davenport (Reg. No. 42,466);

its attorneys with full power of substitution and revocation, to prosecute all domestic and foreign patent applications, including PCT and EPO filings, relating to said invention and to transact all business connected therewith, including signing of all papers on its behalf and making alterations and amendments.

Please address all correspondence and telephone calls regarding this application to:

**Withrow & Terranova, P.L.L.C., P.O. Box 1287, Cary, NC 27512, (919) 654-4520**

The undersigned is the representative for the Assignee of the entire right, title, and interest in the patent application identified above, and is authorized to act on behalf of the Assignee.

Oct 17/03  
Date

NORTEL NETWORKS LIMITED

[Signature]  
Curt Dodd, Esq.  
IP Counsel